



03/27/01

DOCKET NO. : TJU-2414

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Scott A. Waldman,
Jason Park, Stephanie Schulz

Serial No.: Group Art Unit:

Filing Date: Herewith Examiner:

For: COMPOSITIONS AND METHODS FOR IDENTIFYING AND TARGETING
CANCER CELLS OF ALIMENTARY CANAL ORIGIN

EXPRESS MAIL LABEL NO: EL659804358US
DATE OF DEPOSIT: March 27, 2001

Box Patent Application
 Provisional Sequence

Assistant Commissioner for Patents
Washington DC 20231

Sir:

PATENT APPLICATION TRANSMITTAL LETTER

Transmitted herewith for filing, please find

- A Utility Patent Application under 37 C.F.R. 1.53(b).

It is a continuing application, as follows:

continuation divisional continuation-in-part of prior application number
_____.

- A Provisional Patent Application under 37 C.F.R. 1.53(c).

- A Design Patent Application (submitted in duplicate).

- Request for Nonpublication.** The invention(s) disclosed in the present application filed herewith has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing. Thus, pursuant to 35 U.S.C. §122(b)(2)(B)(i), Applicant(s) request that the above-identified patent application not be published.

Including the following:

- Provisional Application Cover Sheet.
- New or Revised Specification, including pages 1 to 46 containing:
- Specification
- Claims
- Abstract
- Substitute Specification, including Claims and Abstract.
- The present application is a continuation application of Application No. _____ filed _____. The present application includes the Specification of the parent application which has been revised in accordance with the amendments filed in the parent application. Since none of those amendments incorporate new matter into the parent application, the present revised Specification also does not include new matter.
- The present application is a continuation application of Application No. _____ filed _____, which in turn is a continuation-in-part of Application No. _____ filed _____. The present application includes the Specification of the parent application which has been revised in accordance with the amendments filed in the parent application. Although the amendments in the parent C-I-P application may have incorporated new matter, since those are the only revisions included in the present application, the present application includes no new matter in relation to the parent application.
- A copy of earlier application Serial No. _____ Filed _____, including Specification, Claims and Abstract (pages 1 - @@), to which no new matter has been added TOGETHER WITH a copy of the executed oath or declaration for such earlier application and all drawings and appendices. Such earlier application is hereby incorporated into the present application by reference.
- Please enter the following amendment to the Specification under the Cross-Reference to Related Applications section (or create such a section) : "This Application:
 is a continuation of is a divisional of claims benefit of U.S. provisional Application Serial No. _____ filed _____.

- Signed Statement attached deleting inventor(s) named in the prior application.
- A Preliminary Amendment.
- _____ Sheets of Formal Drawings.
 - Drawing view to publish: Figure _____.
- Petition to Accept Photographic Drawings.
 - Petition Fee
- An Executed Unexecuted Declaration or Oath and Power of Attorney.
- An Associate Power of Attorney.
- An Executed Copy of Executed Assignment of the Invention to _____
 - A Recordation Form Cover Sheet.
 - Recordation Fee - \$40.00.
- The prior application is assigned of record to _____
- Priority is claimed under 35 U.S.C. § 119 of Patent Application No. _____ filed _____ in _____ (country).
 - A Certified Copy of each of the above applications for which priority is claimed:
 - is enclosed.
 - has been filed in prior application Serial No. _____ filed _____.
- Please enter the following amendment to the first sentence of the specification (or create such a sentence): "This application claims benefit of international application No. _____, which was published under PCT Article 21(2) in English."
- Applicant(s) by its/their undersigned attorney, claims small entity status under 37 C.F.R. §1.27 as:

- an Independent Inventor
- a Small Business Concern (as it pertains to Targeted Diagnostics & Therapeutics, Inc.)
- a Nonprofit Organization (as it pertains to Thomas Jefferson University)
- Diskette Containing DNA/Amino Acid Sequence Information.
- Statement to Support Submission of DNA/Amino Acid Sequence Information.
- The computer readable form in this application _____, is identical with that filed in Application Serial Number _____, filed _____. In accordance with 37 CFR 1.821(e), please use the first-filed, last-filed or only computer readable form filed in that application as the computer readable form for the instant application. It is understood that the Patent and Trademark Office will make the necessary change in application number and filing date for the computer readable form that will be used for the instant application. A paper copy of the Sequence Listing is included in the originally-filed specification of the instant application, included in a separately filed preliminary amendment for incorporation into the specification.
- Information Disclosure Statement.
 - Attached Form 1449.
 - Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.
- A copy of Petition for Extension of Time as filed in the prior case.
- Appended Material as follows: _____.
- Return Receipt Postcard (should be specifically itemized).
- Other as follows: Paper Copy of Sequence Listing - Pages 1 to 3; Computer Readable Form of Sequence Listing.

FEE CALCULATION:

- Cancel in this application original claims _____ of the prior application before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)

	SMALL ENTITY		NOT SMALL ENTITY	
	RATE	Fee	RATE	Fee
PROVISIONAL APPLICATION	\$75.00	\$	\$150.00	\$
DESIGN APPLICATION	\$160.00	\$	\$320.00	\$
UTILITY APPLICATIONS BASE FEE	\$355.00	\$355.00	\$710.00	\$
UTILITY APPLICATION; ALL CLAIMS CALCULATED AFTER ENTRY OF ALL AMENDMENTS				
	No. Filed	No. Extra		
TOTAL CLAIMS	33- 20 = 13	\$9 each	\$117.00	\$18 each
INDEP. CLAIMS	6- 3 = 3	\$40 each	\$120.00	\$80 each
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM		\$135	\$0	\$270
ADDITIONAL FILING FEE			\$	
TOTAL FILING FEE DUE			\$592.00	\$

- A Check is enclosed in the amount of \$592.00.
- The Commissioner is authorized to charge payment of the following fees and to refund any overpayment associated with this communication or during the pendency of this application to deposit account 23-3050. This sheet is provided in duplicate.
- The foregoing amount due.
- Any additional filing fees required, including fees for the presentation of extra claims under 37 C.F.R. 1.16.
- Any additional patent application processing fees under 37 C.F.R. 1.17 or 1.20(d).
- The Commissioner is hereby requested to grant an extension of time for the appropriate length of time, should one be necessary, in connection with this filing or any future filing submitted to the U.S. Patent and Trademark Office in the above-identified application during the pendency of this application. The Commissioner is

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
339
340
341
342
343
344
345
346
347
348
349
349
350
351
352
353
354
355
356
357
358
359
359
360
361
362
363
364
365
366
367
368
369
369
370
371
372
373
374
375
376
377
378
379
379
380
381
382
383
384
385
386
387
388
389
389
390
391
392
393
394
395
396
397
398
399
399
400
401
402
403
404
405
406
407
408
409
409
410
411
412
413
414
415
416
417
418
419
419
420
421
422
423
424
425
426
427
428
429
429
430
431
432
433
434
435
436
437
438
439
439
440
441
442
443
444
445
446
447
448
449
449
450
451
452
453
454
455
456
457
458
459
459
460
461
462
463
464
465
466
467
468
469
469
470
471
472
473
474
475
476
477
478
479
479
480
481
482
483
484
485
486
487
488
489
489
490
491
492
493
494
495
496
497
498
499
499
500
501
502
503
504
505
506
507
508
509
509
510
511
512
513
514
515
516
517
518
519
519
520
521
522
523
524
525
526
527
528
529
529
530
531
532
533
534
535
536
537
538
539
539
540
541
542
543
544
545
546
547
548
549
549
550
551
552
553
554
555
556
557
558
559
559
560
561
562
563
564
565
566
567
568
569
569
570
571
572
573
574
575
576
577
578
579
579
580
581
582
583
584
585
586
587
588
589
589
590
591
592
593
594
595
596
597
598
599
599
600
601
602
603
604
605
606
607
608
609
609
610
611
612
613
614
615
616
617
618
619
619
620
621
622
623
624
625
626
627
628
629
629
630
631
632
633
634
635
636
637
638
639
639
640
641
642
643
644
645
646
647
648
649
649
650
651
652
653
654
655
656
657
658
659
659
660
661
662
663
664
665
666
667
668
669
669
670
671
672
673
674
675
676
677
678
679
679
680
681
682
683
684
685
686
687
688
689
689
690
691
692
693
694
695
696
697
698
699
699
700
701
702
703
704
705
706
707
708
709
709
710
711
712
713
714
715
716
717
718
719
719
720
721
722
723
724
725
726
727
728
729
729
730
731
732
733
734
735
736
737
738
739
739
740
741
742
743
744
745
746
747
748
749
749
750
751
752
753
754
755
756
757
758
759
759
760
761
762
763
764
765
766
767
768
769
769
770
771
772
773
774
775
776
777
778
779
779
780
781
782
783
784
785
786
787
788
789
789
790
791
792
793
794
795
796
797
798
799
799
800
801
802
803
804
805
806
807
808
809
809
810
811
812
813
814
815
816
817
818
819
819
820
821
822
823
824
825
826
827
828
829
829
830
831
832
833
834
835
836
837
838
839
839
840
841
842
843
844
845
846
847
848
849
849
850
851
852
853
854
855
856
857
858
859
859
860
861
862
863
864
865
866
867
868
869
869
870
871
872
873
874
875
876
877
878
879
879
880
881
882
883
884
885
886
887
888
889
889
890
891
892
893
894
895
896
897
898
899
899
900
901
902
903
904
905
906
907
908
909
909
910
911
912
913
914
915
916
917
918
919
919
920
921
922
923
924
925
926
927
928
929
929
930
931
932
933
934
935
936
937
938
939
939
940
941
942
943
944
945
946
947
948
949
949
950
951
952
953
954
955
956
957
958
959
959
960
961
962
963
964
965
966
967
968
969
969
970
971
972
973
974
975
976
977
978
979
979
980
981
982
983
984
985
986
987
988
989
989
990
991
992
993
994
995
996
997
997
998
999
999
1000
SHOULD ANY DEFICIENCIES APPEAR with respect to this application, including deficiencies in payment of fees, missing parts of the application or otherwise, the United States Patent and Trademark Office is respectfully requested to promptly notify the undersigned.

Date: 3/27/01


Mark DeLuca
Registration No. 33,229

Woodcock Washburn Kurtz
Mackiewicz & Norris LLP
One Liberty Place - 46th Floor
Philadelphia PA 19103
Telephone: (215) 568-3100
Facsimile: (215) 568-3439

©2000 WWKMN

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Scott A. Waldman,
Jason Park, Stephanie Schulz

Serial No.: Group Art Unit:

Filing Date: Herewith Examiner:

For: COMPOSITIONS AND METHODS FOR IDENTIFYING AND
TARGETING CANCER CELLS OF ALIMENTARY CANAL ORIGIN

BOX SEQUENCE

Assistant Commissioner for Patents
Washington DC 20231

**STATEMENT TO SUPPORT FILING AND SUBMISSION IN ACCORDANCE
WITH 37 CFR §§ 1.821 THROUGH 1.825**

- I hereby state, in accordance with the requirements of 37 C.F.R. §1.821(f), that the contents of the paper and computer readable copies of the Sequence Listing, submitted in accordance with 37 CFR §1.821(c) and (e), respectively are the same.
- I hereby state that the submission filed in accordance with 37 CFR §1.821(g) does not include new matter.
- I hereby state that the submission filed in accordance with 37 CFR §1.821(h) does not include new matter or go beyond the disclosure in the international application as filed.
- I hereby state that the amendments, made in accordance with 37 CFR §1.825(a), included in the substitute sheet(s) of the Sequence Listing are supported in the application, as filed, at pages _____. I hereby state that the substitute sheet(s) of the Sequence Listing does (do) not include new matter.
- I hereby state that the substitute copy of the computer readable form, submitted in accordance with 37 CFR §1.825(b), is the same as the amended Sequence Listing.
- I hereby state that the substitute copy of the computer readable form, submitted in accordance with 37 CFR §1.825(d), contains identical data to that originally filed.

Date: 3/27/01

Woodcock Washburn Kurtz
Mackiewicz & Norris LLP
One Liberty Place - 46th Floor
Philadelphia PA 19103
Telephone: (215) 568-3100
Facsimile: (215) 568-3439



Mark DeLuca
Registration No. 33,229